

CLAIMS:

1. A spraying device comprising:
a cartridge containing a first fluid, the cartridge being removably connected to a sprayer body, the cartridge being oriented such that gravity exerts a downward force on the first fluid;
the sprayer body comprising:
a conduit for receiving a second fluid;
a valve coupled to the conduit, the valve allowing the second fluid to flow through the valve and creating a vacuum that draws the first fluid out of the cartridge and into the valve to enable the first and second fluids to mix and form an outlet stream; and
an orifice for metering a predetermined amount of the first fluid into the valve to achieve a predetermined ratio of the first fluid to the second fluid in the outlet stream.
2. The spraying device of claim 1, wherein the first fluid is a chemical.
3. The spraying device of claim 1, wherein the second fluid is water.
4. The spraying device of claim 1, wherein the metering orifice is disposed in the sprayer body.
5. The spraying device of claim 1, wherein the metering orifice is disposed in the cartridge.
6. The spraying device of claim 1, wherein the metering orifice is on a metering disc that is adjustable to select one of several orifice sizes.
7. The spraying device of claim 1, further including an actuator coupled to the valve for selecting between at least two positions.
8. The spraying device of claim 1, wherein the valve is coupled to a spray nozzle.
9. The spraying device of claim 8, wherein the spray nozzle is rotatably adjustable to provide different spray patterns.

10. The spraying device of claim 1, wherein the cartridge is made of flexible plastic.
11. The spraying device of claim 1, wherein the first fluid can be dispensed from the cartridge by squeezing the cartridge in an inverted position.
12. The spraying device of claim 1, wherein the cartridge includes a check valve for keeping the cartridge sealed until the first fluid is drawn out of the cartridge.
13. The spraying device of claim 1, wherein the check valve includes a duckbill portion and an umbrella portion.
14. The spraying device of claim 1, wherein the cartridge is not refillable.
15. The spraying device of claim 1, wherein the cartridge is refillable.
16. The spraying device of claim 1, wherein the cartridge includes a secondary threaded closure.
17. The spraying device of claim 1, wherein the conduit is coupled to a hose coupler.
18. The spraying device of claim 17, wherein the hose coupler includes an anti-siphon unit.
19. A spraying device comprising:
 - a sprayer body coupled to a cartridge containing a first fluid;
 - the sprayer body comprising:
 - a conduit for receiving a second fluid;
 - a valve coupled to the conduit, the valve allowing passage of the second fluid through the valve to create a vacuum that draws the first fluid out of the cartridge and into the valve without the need for a dip tube, the valve enabling the first and second fluids to mix and form an outlet stream; and
 - an orifice for metering a predetermined amount of the first fluid into the valve to achieve a predetermined ratio of the first fluid to the second fluid in the outlet stream.

20. The spraying device of claim 19, wherein the metering orifice is disposed in the sprayer body.
21. The spraying device of claim 19, wherein the metering orifice is disposed in the cartridge.
22. The spraying device of claim 19, wherein the metering orifice is on a metering disc that is adjustable to select one of several orifice sizes.
23. The spraying device of claim 19, further including a spray nozzle coupled to the valve and being rotatably adjustable to provide different spray patterns.
24. The spraying device of claim 19, wherein the first fluid can be dispensed from the cartridge by squeezing the cartridge in an inverted position.
25. The spraying device of claim 19, wherein the cartridge includes a check valve.
26. The spraying device of claim 19, further including a hose coupler that is coupled to the conduit and includes an anti-siphon unit.
27. A spraying device comprising:
- a sprayer body for removable connection with a cartridge containing a first fluid, the cartridge being oriented such that gravity exerts a downward force on the first fluid;
 - the sprayer body comprising:
 - a conduit for receiving a second fluid;
 - an actuator for selecting between at least two positions including a feed position;
 - a valve coupled to the actuator and the conduit, the valve allowing the second fluid to flow through the valve, the valve creating a vacuum that draws the first fluid out of the cartridge and into the valve without the need for a dip tube, the valve enabling the first and second fluids to mix and form an outlet stream; and

an orifice for metering a predetermined amount of the first fluid into the valve to achieve a predetermined ratio of the first fluid to the second fluid in the outlet stream.

28. The spraying device of claim 27, wherein the metering orifice is disposed in the sprayer body.
29. The spraying device of claim 27, wherein the metering orifice is disposed in the cartridge.
30. The spraying device of claim 27, wherein the metering orifice is on a metering disc that is adjustable to select one of several orifice sizes.
31. The spraying device of claim 27, wherein the first fluid can be dispensed from the cartridge by squeezing the cartridge in an inverted position.
32. The spraying device of claim 27, wherein the cartridge includes a check valve.